

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

23364

7590

08/24/2006

BACON & THOMAS, PLLC 625 SLATERS LANE FOURTH FLOOR ALEXANDRIA, VA 22314

EXA	MINER
TOLEDO,	FERNANDO L
ART UNIT	PAPER NUMBER
2823	

DATE MAILED: 08/24/2006

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,804	03/29/2004	Chang-Rong Wu	WUCH3037/EM	9777

TITLE OF INVENTION: METHOD AND COMPOSITE HARD MASK FOR FORMING DEEP TRENCHES IN A SEMICONDUCTOR SUBSTRATE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$0	\$1700	11/24/2006

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notifical	ed below or directed oth	ng the Patent, advice in Block	vance of 1, by (a	rders and notification on a) specifying a new con	f marresp	aintenance fees wondence address;	ill be n and/or	nailed to the current of (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
	ENCE ADDRESS (Note: Use B	lock I for any change of	faddress)	F	ee(s) Transmittal. This s. Each additional	s certifi paper.	cate cannot be used for	domestic mailings of the or any other accompanying t or formal drawing, must
23364	7590 08/24	/2006		п	avc			_	alasia n
BACON & TH 625 SLATERS I FOURTH FLOO	LANE DR			I S a. tr	here tate: ddre ransi	by certify that thi	s Fee(s	of Mailing or Transn) Transmittal is being icient postage for first SSUE FEE address) 273-2885, on the da	deposited with the United class mail in an envelope above, or being facsimile te indicated below.
ALEXANDRIA	, VA 22314								(Depositor's name)
									(Signature)
				L					(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENT	OR		ATTOR	NEY DOCKET NO.	CONFIRMATION NO.
10/810,804	03/29/2004	1		Chang-Rong Wu			w	UCH3037/EM	9777
FITLE OF INVENTION				, , , , , , , , , , , , , , , , , , ,		.,,,	· •		DATE DUE
APPLN. TYPE	SMALL ENTITY	ISSUE FEE D	UE	PUBLICATION FEE DU	JE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	
nonprovisional	NO	\$1400		\$300	_	\$0		\$1700	11/24/2006
EXAM	INER	ART UNIT		CLASS-SUBCLASS					
TOLEDO, FE	ERNANDO L	2823		438-702000					
CFR 1.363). Change of corresp Address form PTO/SI "Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. ASSIGNEE NAME A	ication (or "Fee Address 12 or more recent) attack ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	Indication form	dence tomer		to ative	3 registered patentially, firm (having as a gent) and the namenty or agents. If ininted.	members of up	er a 2er a 2er is 3entified below, the do	cument has been filed for
Please check the appropr	iate assignee category or	categories (will r	not be p	rinted on the patent):		Individual 🗖 Co	rporatio	on or other private gro	up entity Government
•	are submitted: No small entity discount p # of Copies	•	41	b. Payment of Fee(s): (P A check is enclose Payment by credit The Director is her- overpayment, to De	d. card eby	. Form PTO-2038 authorized to char	is attac	ched. equired fee(s), any def	
5. Change in Entity Sta	tus (from status indicate s SMALL ENTITY state	-	27	b. Applicant is no l	long	er claiming SMAI	I ENT	TITY status See 37 CF	R 1 27(g)(2)
	d Publication Fee (if req	uired) will not be	accente	d from anyone other tha					e assignee or other party in
		- · · · · · · · · · · · · · · · · · · ·				Date			
_	e								
This collection of inform an application. Confiden submitting the completed this form and/or suggesti	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this bu	CFR 1.311. The in U.S.C. 122 and to USPTO. Time warden, should be so	formation 37 CFR will vary ent to th	on is required to obtain of 1.14. This collection is depending upon the internation Office Chief Information Office.	or re esti divi ficer	tain a benefit by the mated to take 12 reduced to take 12 reduced case. Any co	he publ ninutes mment Tradem	ic which is to file (and to complete, including s on the amount of tin tark Office, U.S. Depa	by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O.

Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/810,804 03/29/2004		03/29/2004	Chang-Rong Wu	WUCH3037/EM	9777			
23364	7590	08/24/2006		EXAM	INER			
BACON & T	HOMAS.	PLLC	TOLEDO, FE	TOLEDO, FERNANDO L				
625 SLATERS			ART UNIT	PAPER NUMBER				
FOURTH FLO		14	2823 DATE MAILED: 08/24/200	6				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 107 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 107 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.